

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2016 Levee Inspection Results****Reclamation District No. 0404 Boggs**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Reclamation District No. 0404 Boggs

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	2.35
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/7/2016 - 4/7/2016			
DWR Inspector	Richard Willoughby			
Accompanied By	Bob Winter KSN			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0404_01_s_2013_24				
Comment Code					
Inspector Comment					
The LMA has a copy of the O & M Manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0404_01_s_2013_25				
Comment Code					
Inspector Comment					
LMA has adequate flood fight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	26
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0404_01_s_2013_26				
Comment Code					
Inspector Comment					
LMA staff are maintaining their flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	32
LM End	2.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.942117 °	37.920303 °
				-121.345173 °	-121.318338 °
DWR ID	DWR_RD0404_01_s_2016_32				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	27
LM End	2.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.942115 °	37.920303 °
				-121.345172 °	-121.318338 °
DWR ID	DWR_RD0404_01_s_2016_27				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.13	Rating **	M	Issue No.	31
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.940677 °	37.940677 °
				-121.343790 °	-121.343790 °
DWR ID	DWR_RD0404_01_s_2015_31				
Comment Code					
MA : Material					
Inspector Comment					
Remove the large concrete blocks from landward slope.					

Photo 1 of 1 : SP_2016_RD0404_305_31_20160404_00021.jpg



Looking southeast at concrete blocks on landward slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.34	Rating **	U	Issue No.	9	
LM End	0.34	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.939190 °	37.939190 °	
				-121.338280 °	-121.338280 °	
DWR ID	DWR_RD0404_01_s_2016_9					
Comment Code						
Inspector Comment						
06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 8/7/2012: The erosion is next to a repaired site and approximately 400 feet downstream of a river bend. There are broken concretes at the upper levee slope, but not visible at the levee toe or lower slope. Likely the protection concrete blocks have been washed away. [2015 Site ID:RD0404U01RM41.11]						

LM Start	0.34	Rating **	U	Issue No.	9 (cont)
LM End	0.34	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2016_RD0404_305_9_20160404_00010.jpg



Close view of the site.

Photo 2 of 2 : SP_2016_RD0404_305_9_20160404_00011.jpg



A closer view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	5
LM End	0.43	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.939635 °	37.939635 °
				-121.339063 °	-121.339063 °
DWR ID	DWR_RD0404_01_s_2013_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
District grouted hole, and the deficiency still exist.					

LM Start	0.43	Rating **	M	Issue No.	5 (cont)
LM End	0.43	Issue Type +	Ma	Location *	CR

Photo 1 of 4 : SP_2016_RD0404_305_5_20160404_00004.jpg



Looking at partialled grouted rodent hole on levee crown (Fall 2014).

Photo 2 of 4 : SP_2016_RD0404_305_5_20160404_00005.jpg



Looking at partially grouted rodent hole on levee crown

LM Start	0.43	Rating **	M	Issue No.	5 (cont)
LM End	0.43	Issue Type +	Ma	Location *	CR

Photo 3 of 4 : SP_2016_RD0404_305_5_20160404_00006.jpg



Looking at rodent hole on levee crown.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	5 (cont)	
LM End	0.43	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.939635 °		37.939635 °
				-121.339063 °		-121.339063 °
DWR ID	DWR_RD0404_01_s_2013_5					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
District grouted hole, and the deficiency still exist.						

Photo 4 of 4 : SP_2016_RD0404_305_5_20160404_00007.jpg



Looking at one of several rodent holes on levee crown.

LM Start	0.45	Rating **	A/W	Issue No.	104
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.939627 °	37.939627 °
				-121.338808 °	-121.338808 °
DWR ID	DWR_RD0404_01_s_2012_104				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove bamboo on waterside toe. Bamboo is not within twenty feet zone, but should be removed to stop from spreading along waterward slope. Bamboo has increased in size.					

Photo 1 of 3 : SP_2016_RD0404_305_104_20160404_00024.jpg



Looking northwest at bamboo on waterside toe.

LM Start	0.45	Rating **	A/W	Issue No.	104 (cont)
LM End	0.45	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2016_RD0404_305_104_20160404_00025.jpg



Looking west at bamboo on waterward slope. 2013

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.45	Rating **	A/W	Issue No.	104 (cont)	
LM End	0.45	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.939627 °		37.939627 °
				-121.338808 °		-121.338808 °
DWR ID	DWR_RD0404_01_s_2012_104					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove bamboo on waterside toe. Bamboo is not within twenty feet zone, but should be removed to stop from spreading along waterward slope. Bamboo has increased in size.						

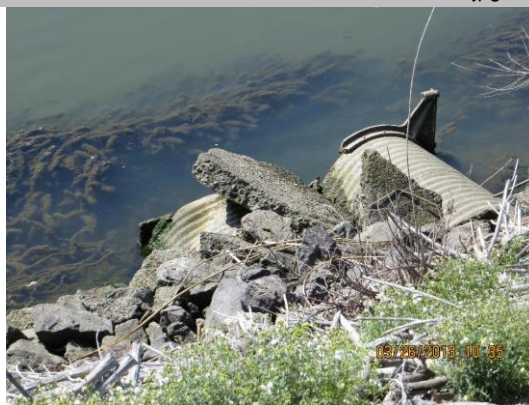
Photo 3 of 3 : SP_2016_RD0404_305_104_20160404_00026.jpg



Looking southwest at bamboo on waterward slope and toe.

LM Start	0.48	Rating **	U	Issue No.	111
LM End	0.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.939640 °	37.939640 °
				-121.338175 °	-121.338175 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40783					
DS_ID:22968					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Flap gate missing from WS toe.					
FIELD_STRUCT_DESC: 1 of 2. Two 36-inch corrugated metal drainage pipes.					
FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_SP_2016_40783_20082.jpg



WS- two CM pipes with damaged flap gates

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.48	Rating **	U	Issue No.	111 (cont)	
LM End	0.48	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.939640 °		37.939640 °
				-121.338175 °		-121.338175 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:40783						
DS_ID:22968						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: Flap gate missing from WS toe.						
FIELD_STRUCT_DESC: 1 of 2. Two 36-inch corrugated metal drainage pipes.						
FS Date: 3/26/2013						

Photo 2 of 2 : UCIP_SP_2016_40783_20081.jpg



WS- left CM pipe with missing flap gate

LM Start	0.48	Rating **	U	Issue No.	112
LM End	0.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.939640 °	37.939640 °
				-121.338175 °	-121.338175 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40784					
DS_ID:22969					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Pipe has broken flap gate.					
FIELD_STRUCT_DESC: 2 of 2. Two 36-inch corrugated metal drainage pipes.					
FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_SP_2016_40784_20086.jpg



WS- two CM pipes with damaged flap gates

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.48	Rating **	U	Issue No.	112 (cont)	
LM End	0.48	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.939640 °		37.939640 °
				-121.338175 °		-121.338175 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:40784						
DS_ID:22969						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: Pipe has broken flap gate.						
FIELD_STRUCT_DESC: 2 of 2. Two 36-inch corrugated metal drainage pipes.						
FS Date: 3/26/2013						

Photo 2 of 2 : UCIP_SP_2016_40784_20085.jpg



WS- right CM pipe with damaged flap gate

LM Start	0.65	Rating **	M	Issue No.	108
LM End	0.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670 °	37.938670 °
				-121.335397 °	-121.335397 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:11087					
DS_ID:17952					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Steel intake structure on landside of the levee.					
FIELD_STRUCT_DESC: 2 of 3. 30-inch pipes through levee, 22.0 feet below the crown. Waterward end with flap gates. Landward end filled with dirt. Steel intake structure on landside of the levee. Middle flap gate missing and right flap gate broken as of 1/24/07.					
FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_SP_2016_11087_20041.jpg



LS- intake structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	108 (cont)	
LM End	0.65	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.938670 °	37.938670 °	
				-121.335397 °	-121.335397 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:11087 DS_ID:17952 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on landside of the levee. FIELD_STRUCT_DESC: 2 of 3. 30-inch pipes through levee, 22.0 feet below the crown. Waterward end with flap gates. Landward end filled with dirt. Steel intake structure on landside of the levee. Middle flap gate missing and right flap gate broken as of 1/24/07. FS Date: 3/26/2013						

Photo 2 of 2 : UCIP_SP_2016_11087_20040.jpg



LS- overview of land side of the levee.

LM Start	0.66	Rating **	M	Issue No.	105
LM End	0.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670 °	37.938670 °
				-121.335397 °	-121.335397 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:12383 DS_ID:18811 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on LS FIELD_STRUCT_DESC: 3 of 3. 30-inch pipes through levee, 22.0 feet below the crown. Waterward end with flap gates. Steel intake structure on landside. Landward end filled with dirt. Middle flap gate missing and right flap gate broken as of 1/24/07. FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_SP_2016_12383_20047.jpg



LS- steel intake structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	105 (cont)	
LM End	0.66	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.938670 °	37.938670 °	
				-121.335397 °	-121.335397 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:12383 DS_ID:18811 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on LS FIELD_STRUCT_DESC: 3 of 3. 30-inch pipes through levee, 22.0 feet below the crown. Waterward end with flap gates. Steel intake structure on landside. Landward end filled with dirt. Middle flap gate missing and right flap gate broken as of 1/24/07. FS Date: 3/26/2013						

Photo 2 of 2 : UCIP_SP_2016_12383_20046.jpg



WS- CM pipes and damaged flap gates

LM Start	0.66	Rating **	M	Issue No.	106
LM End	0.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670 °	37.938670 °
				-121.335397 °	-121.335397 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:12384 DS_ID:18810 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on LS. FIELD_STRUCT_DESC: 1 of 3. 30-inch CM pipes through levee, 22.0 feet below the crown. Waterward end with damaged flap gates. Steel intake structure on landside. On waterside, middle flap gate missing and right flap gate broken as of 1/24/07. FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_SP_2016_12384_20054.jpg



LS- steel intake structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	106 (cont)
LM End	0.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670 °	37.938670 °
				-121.335397 °	-121.335397 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:12384 DS_ID:18810 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on LS. FIELD_STRUCT_DESC: 1 of 3. 30-inch CM pipes through levee, 22.0 feet below the crown. Waterward end with damaged flap gates. Steel intake structure on landside. On waterside, middle flap gate missing and right flap gate broken as of 1/24/07. FS Date: 3/26/2013					

Photo 2 of 2 : UCIP_SP_2016_12384_20053.jpg



WS- CM pipes with damaged flap gates

LM Start	0.75	Rating **	M	Issue No.	7
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.937758 °	37.937758 °
				-121.334149 °	-121.334149 °
DWR ID	DWR_RD0404_01_s_2012_7				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0404_305_7_20160404_00008.jpg



Looking southeast at elderberry on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.75	Rating **	U	Issue No.	113
LM End	0.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.937657 °	37.937657 °
				-121.334158 °	-121.334158 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:46628
DS_ID:17945
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: Partially buried flap gate
FIELD_STRUCT_DESC: 42-inch CM drainage pipe 18.0 FBC. Flap gate, concrete headwall and spillway on WS. Pumphouse on LS.
Abandoned concrete headwall, power pole, and 2 wooden piles found on LS. O&M #: SJR 001
FS Date: 8/4/2015

LM Start	0.75	Rating **	U	Issue No.	113 (cont)
LM End	0.75	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_46628_19962.jpg



WS- drainage outlet structure and CM pipe with flapgate

Photo 2 of 2 : UCIP_SP_2016_46628_19961.jpg



WS- Debris and vegetation blocking CM drainage pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	8
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.937395 °	37.937395 °
				-121.333883 °	-121.333883 °
DWR ID	DWR_RD0404_01_s_2013_8				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trees are blocking view of the slope.					

Photo 1 of 1 : SP_2016_RD0404_305_8_20160404_00009.jpg



Looking southeast at dense trees on landward slope and toe.

LM Start	0.79	Rating **	M	Issue No.	115
LM End	0.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.937212 °	37.937212 °
				-121.333762 °	-121.333762 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46810 DS_ID:17946 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned; if so should be done so properly. FIELD_STRUCT_DESC: Underground telephone cable through levee and across channel. Non-operational. FS Date: 8/4/2015					

Photo 1 of 2 : UCIP_SP_2016_46810_74753.jpg



WS view looking south: conduits penetrating levee slope now disconnected with those attached to bridge

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.79	Rating **	M	Issue No.	115 (cont)	
LM End	0.79	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.937212 °		37.937212 °
				-121.333762 °		-121.333762 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:46810						
DS_ID:17946						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned; if so should be done so properly.						
FIELD_STRUCT_DESC: Underground telephone cable through levee and across channel. Non-operational.						
FS Date: 8/4/2015						

Photo 2 of 2 : UCIP_SP_2016_46810_74754.jpg



WS view looking west: conduits thru levee and attached to bridge

LM Start	0.89	Rating **	M	Issue No.	17
LM End	0.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.936159 °	37.936159 °
				-121.332711 °	-121.332711 °
DWR ID	DWR_RD0404_01_f_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.95	Rating **	M	Issue No.	2
LM End	0.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.935990 °	37.935990 °
				-121.331600 °	-121.331600 °
DWR ID	DWR_RD0404_01_s_2012_2				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking the visibility.					

No Photos

LM Start	1.04	Rating **	U	Issue No.	3
LM End	1.04	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.935622 °	37.935622 °
				-121.330137 °	-121.330137 °
DWR ID	DWR_RD0404_01_f_2013_3				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on waterward slope and shoulder.					

Photo 1 of 2 : SP_2016_RD0404_305_3_20160404_00001.jpg



Looking northwest at downed tree on waterward slope and shoulder.

LM Start	1.04	Rating **	U	Issue No.	3 (cont)
LM End	1.04	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP_2016_RD0404_305_3_20160404_00002.jpg



Looking north at downed tree on waterward slope and shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.07	Rating **	U	Issue No.	102
LM End	1.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935358 °	37.935358 °
				-121.329645 °	-121.329645 °
DWR ID	DWR_RD0404_01_s_2012_102				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0404_305_102_20160404_00023.jpg



Looking northwest at untrimmed tree on waterward slope.

LM Start	1.09	Rating **	M	Issue No.	4
LM End	1.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			37.935158 °	37.935158 °
				-121.329365 °	-121.329365 °
DWR ID	DWR_RD0404_01_f_2013_4				
Comment Code					
Inspector Comment					
Concrete rubble with rebar should be removed.					

Photo 1 of 1 : SP_2016_RD0404_305_4_20160404_00003.jpg



Looking southwest at concrete rubble with rebar on waterward slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 0404 Boggs

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.12	Rating **	U	Issue No.	39
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.934870 °	37.934870 °
				-121.328903 °	-121.328903 °
DWR ID	DWR_RD0404_01_s_2016_39				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Large fallen left hole on waterward slope.					

Photo 1 of 1 : SP_2016_RD0404_305_39_20160408_00062.jpg



Looking west at fallen tree with hole on waterward toe.

LM Start	1.15	Rating **	M	Issue No.	38
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			37.934492 °	37.934492 °
				-121.328570 °	-121.328570 °
DWR ID	DWR_RD0404_01_s_2016_38				
Comment Code					
Inspector Comment					
Concrete with rebar on waterward shoulder and slope.					

Photo 1 of 2 : SP_2016_RD0404_305_38_20160408_00063.jpg



Looking southwest at concrete rubble with rebar on waterward slope.

LM Start	1.15	Rating **	M	Issue No.	38 (cont)
LM End	1.15	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD0404_305_38_20160408_00064.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.19	Rating **	M	Issue No.	101
LM End	1.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.934058 °	37.934058 °
				-121.328188 °	-121.328188 °
DWR ID	DWR_RD0404_01_s_2012_101				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0404_305_101_20160404_00022.jpg



Looking southeast at overhanging trees on landside slope.

LM Start	1.35	Rating **	M	Issue No.	100
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.931945 °	37.931945 °
				-121.327150 °	-121.327150 °
DWR ID	DWR_RD0404_01_s_2012_100				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.44	Rating **	M	Issue No.	11
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.930450 °	37.930450 °
				-121.327450 °	-121.327450 °
DWR ID	DWR_RD0404_01_s_2016_11				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed.					
06/19/2014: A series of scarp erosions have been found on the lower levee slope and at the levee toe. [2015 Site ID:RD0404U01RM42.02]					

Photo 1 of 2 : SP_2016_RD0404_305_11_20160404_00012.jpg



Front view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	11 (cont)	
LM End	1.46	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.930450 °	37.930450 °	
				-121.327450 °	-121.327450 °	
DWR ID	DWR_RD0404_01_s_2016_11					
Comment Code						
Inspector Comment						
06/24/2015: No significant change observed.						
06/19/2014: A series of scarp erosions have been found on the lower levee slope and at the levee toe. [2015 Site ID:RD0404U01RM42.02]						

Photo 2 of 2 : SP_2016_RD0404_305_11_20160404_00013.jpg



Close view of the erosion. The upstream end of the site is protected by riprap revetment.

LM Start	1.55	Rating **	M	Issue No.	37
LM End	1.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.929065 °	37.929065 °
				-121.327265 °	-121.327265 °
DWR ID	DWR_RD0404_01_s_2016_37				
Comment Code					
PI : Pipe					
Inspector Comment					
3-4 inch depression across levee crown.					

Photo 1 of 3 : SP_2016_RD0404_305_37_20160408_00059.jpg



LM Start	1.55	Rating **	M	Issue No.	37 (cont)
LM End	1.55	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : SP_2016_RD0404_305_37_20160408_00058.jpg



Looking east at depression across levee crown.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	37 (cont)	
LM End	1.55	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.929065 °		37.929065 °
				-121.327265 °		-121.327265 °
DWR ID	DWR_RD0404_01_s_2016_37					
Comment Code						
PI : Pipe						
Inspector Comment						
3-4 inch depression across levee crown.						

Photo 3 of 3 : SP_2016_RD0404_305_37_20160408_00060.jpg



LM Start	1.57	Rating **	M	Issue No.	107
LM End	1.57	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.928718 °	37.928718 °
				-121.327206 °	-121.327206 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:12386 DS_ID:17956 EP_NO: 15562 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: According to Bob Winter of KSN/LMA representative. Fiber optics cable goes through levee. No sign/indicators found. And photos not taken. FIELD_STRUCT_DESC: 4-inch steel pipe with fiber optics communication cable through levee. Cable Crosses the channel. (Permit No. 15562-1991). The pipe is 34 feet below the levee crown. FS Date: 3/26/2013					

Photo 1 of 1 : UCIP_SP_2016_12386_20062.jpg



Aerial Photo @HLM=1.5791: No sign posts/markers found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.57	Rating **	M	Issue No.	36
LM End	1.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.928717 °	37.928717 °
				-121.327132 °	-121.327132 °
DWR ID	DWR_RD0404_01_s_2016_36				
Comment Code					
GA : Garbage					
Inspector Comment					
Garbage on landward slope and toe.					

Photo 1 of 1 : SP_2016_RD0404_305_36_20160408_00061.jpg



Looking east at garbage on landward slope and toe.

LM Start	1.62	Rating **	M	Issue No.	35
LM End	1.62	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.928240 °	37.928240 °
				-121.326567 °	-121.326567 °
DWR ID	DWR_RD0404_01_s_2016_35				
Comment Code					
GA : Garbage					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.64	Rating **	M	Issue No.	109
LM End	1.64	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.928090 °	37.928090 °
				-121.326215 °	-121.326215 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40487 DS_ID:18812 EP_NO: 10897 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned crossing. WS pipe capped with steel pipe and LS pipe cut. FIELD_STRUCT_DESC: Abandoned 14-inch irrigation pipe. 3.0 feet below levee crown (Permit No. 10897). FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_SP_2016_40487_20064.jpg



WS- steel pipe capped with steel plate.

LM Start	1.64	Rating **	M	Issue No.	109 (cont)
LM End	1.64	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40487_20063.jpg



LS- concrete standpipe on levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.67	Rating **	A/W	Issue No.	30
LM End	1.67	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927862 °	37.927862 °
				-121.325832 °	-121.325832 °
DWR ID	DWR_RD0404_01_s_2015_30				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree limb on waterward slope.					

No Photos

LM Start	1.70	Rating **	U	Issue No.	29
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927517 °	37.926632 °
				-121.325515 °	-121.324868 °
DWR ID	DWR_RD0404_01_s_2015_29				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Dense untrimmed trees on waterward slope. Army Corp veg site.					

Photo 1 of 2 : SP_2016_RD0404_305_29_20160408_00066.jpg



Photo 2 of 2 : SP_2016_RD0404_305_29_20160408_00065.jpg



Looking north at dense vegetation on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	---	--	---	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	34
LM End	1.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.926830 °	37.926830 °
				-121.324998 °	-121.324998 °
DWR ID	DWR_RD0404_01_s_2016_34				
Comment Code					
RA : Ramp					
Inspector Comment					

No Photos

LM Start	1.81	Rating **	M	Issue No.	110
LM End	1.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.926168 °	37.926168 °
				-121.324514 °	-121.324514 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40797					
DS_ID:17961					
EP_NO: 6560					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Damaged siphon breaker in pipe riser near the landward shoulder.					
FIELD_STRUCT_DESC: 8-inch pipe through the levee, 7.0 feet below the crown, chain link fence around pump and motor on the waterward slope. (Permit. No. 6560)					
FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_SP_2016_40797_20073.jpg



WS- slanted pump, pipe, and concrete steps on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.81	Rating **	M	Issue No.	110 (cont)	
LM End	1.81	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.926168 °	37.926168 °	
				-121.324514 °	-121.324514 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:40797						
DS_ID:17961						
EP_NO: 6560						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Damaged siphon breaker in pipe riser near the landward shoulder.						
FIELD_STRUCT_DESC: 8-inch pipe through the levee, 7.0 feet below the crown, chain link fence around pump and motor on the waterward slope. (Permit. No. 6560)						
FS Date: 3/26/2013						

Photo 2 of 2 : UCIP_SP_2016_40797_20072.jpg



WS- slanted pump, and pipe on levee slope.

LM Start	2.00	Rating **	U	Issue No.	33
LM End	2.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.923673 °	37.923673 °
				-121.323015 °	-121.323015 °
DWR ID	DWR_RD0404_01_s_2016_33				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree on waterward slope					

Photo 1 of 1 : SP_2016_RD0404_305_33_20160408_00067.jpg



Looking west at dead tree on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	2.01	Rating **	M	Issue No.	16
LM End	2.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.923470 °	37.923470 °
				-121.322978 °	-121.322978 °
DWR ID	DWR_RD0404_01_f_2013_16				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage due to foot traffic.					

Photo 1 of 2 : SP_2016_RD0404_305_16_20160404_00014.jpg



Looking west at slope damage due to foot traffic.

LM Start	2.01	Rating **	M	Issue No.	16 (cont)
LM End	2.01	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD0404_305_16_20160404_00015.jpg



Looking southwest at slope damage due to foot traffic.

LM Start	2.08	Rating **	M	Issue No.	13
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.922669 °	37.922669 °
				-121.322272 °	-121.322272 °
DWR ID	DWR_RD0404_01_f_2012_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	2.21	Rating **	M	Issue No.	28
LM End	2.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.921458 °	37.921458 °
				-121.320502 °	-121.320502 °
DWR ID	DWR_RD0404_01_s_2015_28				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Landward slope erosion.					

Photo 1 of 2 : SP_2016_RD0404_305_28_20160404_00018.jpg



Looking east at erosion on landward slope.

LM Start	2.21	Rating **	M	Issue No.	28 (cont)
LM End	2.21	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD0404_305_28_20160404_00019.jpg



Looking west at erosion on landward slope.

LM Start	2.33	Rating **	M	Issue No.	23
LM End	2.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			37.920488 °	37.920338 °
				-121.318630 °	-121.318435 °
DWR ID	DWR_RD0404_01_s_2013_23				
Comment Code					
Inspector Comment					
Remove rebar from existing concrete rip rap on waterward slope.					

Photo 1 of 2 : SP_2016_RD0404_305_23_20160404_00016.jpg



Looking west at concrete rip rap with rebar. (Spring 2015)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/07/2016 04/07/2016	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	23 (cont)	
LM End	2.35	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Riprap Revetments			37.920488 °	37.920338 °	
				-121.318630 °	-121.318435 °	
DWR ID	DWR_RD0404_01_s_2013_23					
Comment Code						
Inspector Comment						
Remove rebar from existing concrete rip rap on waterward slope.						

Photo 2 of 2 : SP_2016_RD0404_305_23_20160404_00017.jpg



Looking southwest at concrete rip rap with rebar.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Reclamation District No. 0404 Boggs

Waterway			Bank	Unit Miles
Unit No. 02 French Camp Slough			Right	1.75
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/7/2016 - 4/7/2016			
DWR Inspector	Richard Willoughby			
Accompanied By	Bob Winter KSN			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	14
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.920303 °	37.917315 °
				-121.318338 °	-121.291807 °
DWR ID	DWR_RD0404_02_s _ 2016_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	16
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.920303 °	37.917315 °
				-121.318338 °	-121.291807 °
DWR ID	DWR_RD0404_02_s _ 2016_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.35	Rating **	M	Issue No.	3
LM End	0.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918935 °	37.919543 °
				-121.313335 °	-121.311432 °
DWR ID	DWR_RD0404_02_s _ 2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent program not working.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.48	Rating **	M	Issue No.	8
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919525 °	37.919525 °
				-121.311193 °	-121.311193 °
DWR ID	DWR_RD0404_02_s_2012_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent program not working.					

No Photos

LM Start	0.51	Rating **	A/W	Issue No.	12
LM End	0.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.919528 °	37.919528 °
				-121.310635 °	-121.310635 °
DWR ID	DWR_RD0404_02_f_2012_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	0.68	Rating **	U	Issue No.	21
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919245 °	37.916652 °
				-121.307705 °	-121.305085 °
DWR ID	DWR_RD0404_02_s_2016_21				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Large holes noted on landward slope.					

Photo 1 of 2 : SP_2016_RD0404_306_21_20160408_00024.jpg



Looking east at large rodent hole on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.68	Rating **	U	Issue No.	21 (cont)	
LM End	0.94	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.919245 °		37.916652 °
				-121.307705 °		-121.305085 °
DWR ID	DWR_RD0404_02_s_2016_21					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Large holes noted on landward slope.						

Photo 2 of 2 : SP_2016_RD0404_306_21_20160408_00025.jpg



LM Start	0.73	Rating **	M	Issue No.	70
LM End	0.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.919336 °	37.919336 °
				-121.306782 °	-121.306782 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:10908					
DS_ID:18781					
EP_NO: 3340A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - Not working for 5 years- Golf club staff- Wooden					
Walkway; Concrete steps- Damaged siphon breaker					
FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.0 feet below					
the crown. Pump on pile structure in stream. Shut-off valve and siphon					
breaker on the waterward shoulder. Timber walkway on the waterward					
slope. One CM cutoff wall. (Permit No. 3340A)					
FS Date: 3/27/2013					

Photo 1 of 2 : UCIP_SP_2016_10908_18182.jpg



WS- pump on steel structure and wooden walkway

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.73	Rating **	M	Issue No.	70 (cont)	
LM End	0.73	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.919336 °	37.919336 °	
				-121.306782 °	-121.306782 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:10908						
DS_ID:18781						
EP_NO: 3340A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Not working for 5 years- Golf club staff- Wooden						
Walkway; Concrete steps- Damaged siphon breaker						
FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.0 feet below						
the crown. Pump on pile structure in stream. Shut-off valve and siphon						
breaker on the waterward shoulder. Timber walkway on the waterward						
slope. One CM cutoff wall. (Permit No. 3340A)						
FS Date: 3/27/2013						

Photo 2 of 2 : UCIP_SP_2016_10908_18181.jpg



WS- damaged, obstructed and buried siphon breaker

LM Start	0.74	Rating **	M	Issue No.	72
LM End	0.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.919308 °	37.919308 °
				-121.306714 °	-121.306714 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:10945 DS_ID:18782 EP_NO: 4448 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete stairway on waterward slope- Not found. Pump was working during field survey. Siphon breaker cap missing. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 9.3 feet below the crown, pump on the landward side. Siphon breaker in concrete well on the waterward shoulder. Two CM cutoff walls. (Permit No. 4448) FS Date: 3/27/2013					

Photo 1 of 2 : UCIP_SP_2016_10945_18248.jpg



WS- siphon breaker without cap in concrete riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	0.74	Rating **	M	Issue No.	72 (cont)	
LM End	0.74	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.919308 °	37.919308 °	
				-121.306714 °	-121.306714 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:10945 DS_ID:18782 EP_NO: 4448 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete stairway on waterward slope- Not found. Pump was working during field survey. Siphon breaker cap missing. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 9.3 feet below the crown, pump on the landward side. Siphon breaker in concrete well on the waterward shoulder. Two CM cutoff walls. (Permit No. 4448) FS Date: 3/27/2013						

Photo 2 of 2 : UCIP_SP_2016_10945_18247.jpg



WS- concrete riser on steep levee slope

LM Start	0.82	Rating **	A/W	Issue No.	4
LM End	0.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918320 °	37.917162 °
				-121.305740 °	-121.305285 °
DWR ID	DWR_RD0404_02_s_2012_4				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.	20
LM End	1.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.916383 °	37.916383 °
				-121.302802 °	-121.302802 °
DWR ID	DWR_RD0404_02_s _ 2016_20				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes on landward slope and levee crown.					

Photo 1 of 2 : SP_2016_RD0404_306_20_20160408_00026.jpg



Looking at rodent hole on levee crown.

LM Start	1.08	Rating **	U	Issue No.	20 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD0404_306_20_20160408_00027.jpg



LM Start	1.11	Rating **	M	Issue No.	19
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.916337 °	37.916337 °
				-121.302287 °	-121.302287 °
DWR ID	DWR_RD0404_02_s _ 2016_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Vehicle erosion on landward slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.	67
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916337 °	37.916337 °
				-121.301888 °	-121.301888 °
DWR ID	DWR_RD0404_02_s_2012_67				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense vegetation around propane tank inside fenced area.					

LM Start	1.13	Rating **	M	Issue No.	67 (cont)
LM End	1.13	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : SP_2016_RD0404_306_67_20160404_00005.jpg



Looking northeast at dense vegetation inside fenced area near pump station on landside toe.

Photo 2 of 4 : SP_2016_RD0404_306_67_20160404_00006.jpg



Looking north at dense vegetation on landward toe around propane tank.

LM Start	1.13	Rating **	M	Issue No.	67 (cont)
LM End	1.13	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP_2016_RD0404_306_67_20160404_00007.jpg



Looking northeast at dense vegetation on landward toe. (Spring 2013)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.	67 (cont)	
LM End	1.13	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.916337 °		37.916337 °
				-121.301888 °		-121.301888 °
DWR ID	DWR_RD0404_02_s_2012_67					
Comment Code						
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
Dense vegetation around propane tank inside fenced area.						

Photo 4 of 4 : SP_2016_RD0404_306_67_20160404_00008.jpg



Looking east at dense vegetation near pump station on landside toe.

LM Start	1.13	Rating **	M	Issue No.	11
LM End	1.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.916347 °	37.916497 °
				-121.301887 °	-121.301095 °
DWR ID	DWR_RD0404_02_s_2012_11				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Grouting program is being used.					

No Photos

LM Start	1.14	Rating **	U	Issue No.	15
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916388 °	37.916388 °
				-121.301683 °	-121.301683 °
DWR ID	DWR_RD0404_02_s_2015_15				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Remove dead stump.					

Photo 1 of 1 : SP_2016_RD0404_306_15_20160404_00004.jpg



Looking east at dead stump on landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.23	Rating **	M	Issue No.	64	
LM End	1.23	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.917042 °		37.917042 °
				-121.300400 °		-121.300400 °
DWR ID	DWR_RD0404_02_s_2012_64					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Several rodent holes on waterside shoulder and slope. The District is grouting the holes. But rodent program not working.						

No Photos

LM Start	1.24	Rating **	U	Issue No.	18
LM End	1.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917092 °	37.917092 °
				-121.300352 °	-121.300352 °
DWR ID	DWR_RD0404_02_s_2016_18				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree from waterward slope.					

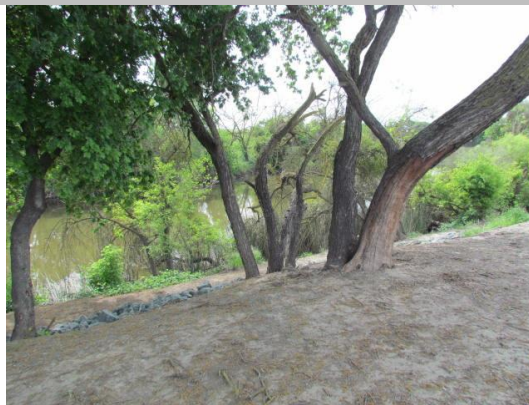
Photo 1 of 2 : SP_2016_RD0404_306_18_20160408_00028.jpg



Looking east at dead trees on waterward slope.

LM Start	1.24	Rating **	U	Issue No.	18 (cont)
LM End	1.24	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD0404_306_18_20160408_00029.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.47	Rating **	C	Issue No.	6
LM End	1.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.918440 °	37.918517 °
				-121.296707 °	-121.295763 °
DWR ID	DWR_RD0404_02_s_2012_6				
Comment Code					
FE : Fence					
Inspector Comment					
Fence poles removed by district.					

No Photos

LM Start	1.51	Rating **	M	Issue No.	61
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918535 °	37.918535 °
				-121.295980 °	-121.295980 °
DWR ID	DWR_RD0404_02_s_2012_61				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.55	Rating **	U	Issue No.	69
LM End	1.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.918411 °	37.918411 °
				-121.295128 °	-121.295128 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:10853 DS_ID:18792 EP_NO: 3340 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and capped 3-in GI pipe found on WS. Damaged air-valve/siphon breaker found on LS.Gully formed due to leaky pipe. A pump house found on LS but it needs to be verified by LMA whether this is associated with this crossing. FIELD_STRUCT_DESC: Abandoned and capped 3-inch GI pipe through levee, 1 feet below the crown; pile structure in stream. damaged siphon breaker at the toe of the landward slope. (Permit No. 3340) FS Date: 3/27/2013					

Photo 1 of 2 : UCIP_SP_2016_10853_18134.jpg



WS- capped 3-inch GI pipe

LM Start	1.55	Rating **	U	Issue No.	69 (cont)
LM End	1.55	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_10853_18133.jpg



WS- soil erosion and gully formation due to leaky pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	73
LM End	1.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917324 °	37.917324 °
				-121.291882 °	-121.291882 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41904					
DS_ID:18793					
EP_NO: 6623					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: Need to contact owner to determine status of crossing and install markers if appropriate to do so.					
FIELD_STRUCT_DESC: 5-inch steel gas line through the levee, 6.4 feet below the crown and across channel. One CM cutoff wall.					
Waterward slope rock revetted. Vent pipe located at waterward shoulder. (Permit No. 6623-1969)					
FS Date: 3/27/2013					

No Photos

LM Start	1.75	Rating **	M	Issue No.	17
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.917315 °	37.917315 °
				-121.291807 °	-121.291807 °
DWR ID	DWR_RD0404_02_s_2016_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.76	Rating **	M	Issue No.	68
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917284 °	37.917284 °
				-121.291740 °	-121.291740 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:10846
DS_ID:18804
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS. Needs a sign post. Bob Winter from KSN (representative of RD 404) will investigate on this crossing.
FIELD_STRUCT_DESC: 1 of 2. 42-inch-diameter pipelines under the levee. Pipes cross under the channel.
FS Date: 3/27/2013

LM Start	1.76	Rating **	M	Issue No.	68 (cont)
LM End	1.76	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_10846_18127.jpg



LS- 7' x 14' concrete vault.

Photo 2 of 2 : UCIP_SP_2016_10846_18126.jpg



Crown view of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/07/2016 04/07/2016	Richard Willoughby

LM Start	1.76	Rating **	M	Issue No.	71
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917284 °	37.917284 °
				-121.291740 °	-121.291740 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:12426
DS_ID:18787
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS. Needs a sign post. Bob Winter from KSN (representative of RD 404) will investigate on this crossing.
FIELD_STRUCT_DESC: 2 of 2. 42-inch-diameter pipelines under the levee. Pipes cross under the channel.
FS Date: 3/27/2013

LM Start	1.76	Rating **	M	Issue No.	71 (cont)
LM End	1.76	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_12426_20130.jpg



LS- 7' x 14' concrete vault.

Photo 2 of 2 : UCIP_SP_2016_12426_20129.jpg



Crown view of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---